

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions



BATTERY CHARGER/STARTER

Model: 7215

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or

accidents which arise due to non-observance of these instructions and the safety information herein.

SPECIFICATIONS

Input Power:

120V AC, 60 Hz, 2.2 Amps (draw)

Output Power:

12V DC – 55 Amps (boost)

12V DC – 10 Amps,

12V DC – 2 Amps,

6V DC – 10 Amps

Battery Leads: 6 ft 7 in long

CAUTION:

FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL COMPLETELY AND CAREFULLY BEFORE OPERATING.

Any failures made in following the safety regulations and instructions may result in an electric shock, fire, and/or serious injury.

SAFETY INSTRUCTIONS

1) Keep your work area clean and well lit to help avoid injury.

2) Do not use the charger in wet

or damp conditions. Do not expose it to rain. Do not use the charger near flammable gases or liquids.

3) Do not allow children to use the charger.

4) Keep the charger stored in a dry location when not in use.

5) Use the charger only for the applications it was designed for. Do not modify this charger or use it in a way that was not intended.

6) Dress properly. Do not wear loose clothing or jewelry. Keep hair pulled back.

7) Use eye protection such as ANSI approved safety goggles.

8) Do not overreach, reach over or across running machines.

9) For better performance, keep the charger clean and inspect the tool periodically. If the charger is damaged, have it serviced by an authorized technician. The clamps should be kept clean, dry and free from oil and grease.

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

10) Unplug the charger when it is not in use.

11) Stay alert. Do not operate this charger while tired or under the influence of drugs or alcohol.

12) Check for damaged parts before using this, or any, tool and that all of the parts are in proper working condition. An authorized technician should repair any damaged parts. Do not use the unit if the on/off switch does not work properly.

13) Protect yourself from electric shock by avoiding contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.

14) Use only accessories intended for this tool.

15) Use the proper extension cord. This tool requires the use of a 0-10 amp extension cord that is up to 50 feet long with a wire size rated at 18 AWG. Longer extension cords will require a larger size wire. If you are using this tool outside, make sure the extension cord is rated for outdoor use.

16) Only use this charger while indoor on a dry, flat, stable surface. If the charger comes into contact with water, it could create an electric shock hazard. Do not stand in water or have wet hands when you are connecting the battery or the charger.

17) If you are charging a marine battery, do not charge it on a boat or near the water, on a pier or a dock.

18) If the charger is defective or damaged in any way, do not plug in the charger and operate it. Have any damages or defects repaired by an authorized technician.

19) Do not alter the cords, plug or clamps in any way.

20) Do not use the charger if it has been dropped or suffered a sharp blow. Have it inspected by an authorized technician before use.

21) Do not permanently mount the battery charger to any vehicle or boat.

22) Never connect both charger clamps to the same post or allow the battery clamps to come in contact with each other.

23) Never charge a frozen battery.

24) Unplug the battery charger before connecting or disconnecting the battery clamps from a battery.

25) Only charge lead acid batteries with this charger. Attempts to charge dry cell batteries could cause an explosion.

26) Use the full extension length of the DC charging cables and keep the charger as

far away from the battery as possible.

27) If you come in contact with battery acid, immediately wash the affected areas with soap and water. If the acid gets into the eye, flush with running cold water for ten minutes and then seek medical attention.

28) Do not connect the charger clamps to a battery that is connected to a running engine.

29) Do not set a battery on top of a charger or allow battery acids to come in contact with the charger.

Preparing the Battery for Use

1) If necessary, remove the battery from the vehicle for charging. Remove the grounded battery cable first and make sure the engine is off when removing, replacing or charging the battery.

2) If necessary, add distilled water to the battery before charging. Follow the manufacturer's instructions. Never add water to a battery while it is attached to a charger or while it is in close proximity to the charger.

3) Clean the battery terminals.

4) Check with the battery manufacturer to see if the cell caps need to be on or off while charging. If nothing is stated, leave the caps on.

Operating Instructions

WARNING: If the reverse connect light ever lights, immediately unplug the charger and reconnect the clamps to the battery.

The engine must be off during the entire charging process
Connecting to a battery inside a vehicle

1) Make sure the AC power cord is not plugged in.

2) Set the charger on a flat, dry surface that allows you to position the power and clamp cords where they won't be damaged by vehicle doors, hood, or sharp engine parts.

Most vehicles are negative-grounded vehicles. The most common vehicle is a negative-grounded vehicle. The less common positive-grounded vehicle is also addressed in this manual. If you are unsure about your vehicle, check the owner's manual or talk to an authorized technician.

3) Negative-grounded vehicles: The battery will have two terminals, one marked positive and the other negative. Connect the red clamp to the positive (ungrounded) terminal of the battery. Connect the black clamp to a heavy gauge metal part of the vehicle chassis or engine block that is away from the battery. Do not connect the black clamp to the negative

terminal on the battery, fuel lines, carburetor or sheet metal body parts.

Positive-grounded vehicles: The battery will have two terminals. Connect the negative (black) charger clamp to the negative ungrounded terminal of the battery. Connect the positive (red) clamp to a heavy gauge metal part of the vehicle chassis or engine block away from the battery. Do not connect the negative (black) terminal on the battery, fuel lines, carburetor or sheet metal body parts.

Connecting to a battery outside the vehicle

1) Make sure the AC power cord is not plugged in.

2) The battery should have two terminals. One should be marked positive and the other marked negative. To protect yourself, connect a battery cable (not included) that is at least 24" long and #6 AWG to the negative terminal battery.

3) Connect the positive (red) clamp from the charger to the positive terminal of the battery.

4) Position yourself and the free end of the battery cable (not included) that is attached to the negative battery terminal, as far away as possible from the battery. While facing away from the battery, connect the negative (black) charger clamp

to the free end of the battery cable (not included).

Charging

The six volt setting (10A/6V) on the select switch is for charging medium to large 6V batteries. It is a manual setting. After the battery is fully charged, the charger must be disconnected to avoid damage. Charging time is 6 to 8 hours and must be monitored.

The two amp, 12 volt setting (2A/Auto) is for charging small 12V batteries or warming large overnight batteries so they can be started in cold weather. It will not fully charge larger or deep cycle batteries. This setting is automatic. It will slow down the charging rate when the battery reaches full charge. The charging time will take longer on the automatic setting because the unit tapers off slowly. It takes approximately 6-8 hours to charge and is not as critical to monitor.

The ten amp, 12 volt setting (10A/12V) is for charging medium to large 12 volt batteries. This setting is automatic. It will slow down the charging rate when the battery reaches full charge. Charging time is a little longer on an automatic setting because the unit tapers off slowly. It takes approximately 6-8 hours to charge and is not as critical to monitor.

Small batteries: Lawn mowers, motorcycles, or snowmobile type batteries have charge rate limits. Always charge them on the two amp, 12 volt (2A/Auto) Setting. Do not use this charger for charging small 6 volt batteries unless the manufacturer of the battery states that the battery can withstand the 10 amp charge rate.

WARNING: If the reverse connect light ever lights, immediately unplug the charger and reconnect the clamps to the battery to remedy the problem.

1) The charger must be set to the same voltage as the battery. (See guidelines above)

2) Set the select function switch to charge and plug in the charger to begin charging.

3) During the charging, whether using the manual or automatic modes, it is important to monitor the operation by checking the ammeter.

Note: When the battery is charged the green charge complete light will turn on.

Disconnecting after charging

First disconnect the charger clamp that is not attached to the battery. Do not allow anything to come in contact with this charger. Next, disconnect the

clamp that is in contact with the battery terminal. Do not let the clamps touch each other while you unplug the charger.

Ammeter Readings

The ammeter shows how much current is being drawn from the charger to the battery. A dead or low battery will have a reading at the high end. As the battery charges, the reading will move towards the lower end and will rest on zero when it is fully charged. When using the battery in engine start mode, the needle will peg towards the higher end of the ammeter. Do not depend on the ammeter to approximate how long the charge will take. Even at full charge, the ammeter will be providing as much as 50 percent of the charger's output rating. It is possible for the ammeter to read near a full charge when the charging process is only beginning when charging a cold battery, sulfated battery or a deeply discharged lead calcium battery (used on many newer model cars).

Cold batteries (at or below 32 degrees Fahrenheit) will begin charging at a low rate and then increase as the battery warms. When the battery warms up, the rate will decrease at a normal rate.

Shorted batteries will read on the ammeter as a high end peg at the beginning of the charging

process. If the needle does not move off of the high end after 5-10 minutes, unplug the charger and discontinue because the battery may have a short circuit. Take the battery to an authorized technician to have it inspected.

Engine Starting

Note: This charger's 55Amp high current output can help start a vehicle with a weak battery. Please note that some newer vehicles with onboard computers may be damaged from this process. Read the vehicle owner's manual before using this procedure.

1) Connect the charger as noted in the operating instructions on page 7.

2) Set the charger to charge the battery for 5-10 minutes according to the charge rate for the size of the battery as explained on page 7.

3) Set the select function switch to start and the select switch to 55A.

4) Attempt to start the vehicle. If it does not start in 2-3 minutes, stop and wait for the battery to charge for 5-10 more minutes. Try again and repeat until successful. If the engine continues to spin but will not start after several tries, stop attempting to start/charge the battery because the continued cranking may damage the

starter motor. Do not continue attempting to start the vehicle until the problem is found and corrected.

Troubleshooting

- 1) Make sure the charger is plugged in.
- 2) Unplug the unit and check all of the connections to ensure clean contact is made.
- 3) Check that the battery is not damaged and incapable of being charged.
- 4) Double check that you have selected the correct setting.
- 5) Make sure you allow enough charging time.

Maintenance

Always unplug the unit before attempting any maintenance.

- 1) Clean the clamps after each use and remove any battery fluid with a solution of water and baking soda.
- 2) To prevent damage to the cable wires and the power cord, coil them after each use.
- 3) Wipe the case down with a soft cloth.

Limited Manufacturer Warranty

North American Tool (NAT) Industries makes every effort to ensure that this product meets high quality and durability standards. NAT warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NAT will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:

Email: feedback@natitools.com or Call 1-800-348-5004



BATTERY CHARGER/STARTER

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Parts List

